

1. An aerosol hair styling composition comprising:

(a) from about 5% to about 90% by weight of a polyalkylene glycol that is substantially free of polyalkylene glyceryl ethers and that has a number average molecular weight of from about 190 to about 1500 and from about 5 to about 35 repeating alkylene oxide radicals wherein each of the repeating alkylene oxide radicals has from 2 to 6 carbon atoms;

(b) from about 1% to about 90% by weight of a liquid carrier; and

(c) from about 5% to about 40% by weight of a propellant.

2. The composition of Claim 1 wherein the composition comprises from about 7.5% to about 50% by weight of the polyalkylene glycol.

3. The composition of Claim 2 wherein the polyalkylene glycol has a number average molecular weight of from about 400 to about 1500.

4. The composition of Claim 3 wherein the polyalkylene glycol is selected from the group consisting of ethoxy polyethylene/polypropylene glycol copolymers, methoxy polyethylene/polypropylene glycol copolymers, propoxy polyethylene/polypropylene glycol copolymers, butoxy polyethylene/polypropylene glycol copolymers, pentoxy polyethylene/polypropylene glycol copolymers, triglycerin, hexaglycerin, PPG-4, PPG-6, PEG-5, PEG-6, PEG-8, PEG-12, PEG-14, PEG-18, PEG-20, PEG-32, and mixtures thereof.

5. The composition of Claim 4 wherein the polyalkylene glycol is selected from the group consisting of PPG-4, PEG-8, PEG-12, PEG-20, and mixtures thereof.

6. The composition of Claim 2 wherein the liquid carrier is selected from the group consisting of water, C₁-C₆ alkanols, carbitol, acetone, and mixtures thereof.

7. The composition of Claim 6 wherein the liquid carrier comprises from about 40% to about 90% by weight of water and from about 1% to about 15% by weight of the C₁-C₆ alkanols.

8. The composition of Claim 7 wherein the C₁-C₆ alkanols are selected from the group consisting of ethanol, n-propanol, isopropanol, n-butanol, amyl alcohol, and mixtures thereof.

9. The composition of Claim 2 wherein the propellant is selected from the group consisting of propane, butane, isobutane, nitrogen, carbon dioxide, nitrous oxide, atmospheric gas, 1,2-difluoroethane, dimethylether, and mixtures thereof.

10. The composition of Claim 2 wherein the composition further comprises a combination of the polyalkylene glycol and a polysaccharide styling polymer.
11. The composition of Claim 10 wherein the polysaccharide styling polymer is selected from the group consisting of glucosamine polysaccharide derivatives, cationic polysaccharides, anionic polysaccharides, and mixtures thereof.
12. The composition of Claim 2 wherein the composition further comprises a gelling agent.
13. The composition of Claim 12 wherein the gelling agent is a water-soluble polymer selected from the group consisting of crosslinked ethylene/maleic anhydride copolymers, crosslinked carboxylic acid polymers, hydrophobically modified nonionic cellulose polymers, and mixtures thereof.
14. A hair mousse composition comprising:
 - (a) from about 5% to about 25% by weight of a polyalkylene glycol that is substantially free of polyalkylene glycaryl ethers and that has a number average molecular weight of from about 190 to about 1500 and from about 5 to about 35 repeating alkylene oxide radicals wherein each of the repeating alkylene oxide radicals has from 2 to 6 carbon atoms;
 - (b) from about 10% to about 90% by weight of water; and
 - (c) from about 5% to about 40% by weight of a propellant.
15. The composition of Claim 14 wherein the polyalkylene glycol has a number average molecular weight of from about 400 to about 1500.
16. The composition of Claim 15 wherein the polyalkylene glycol is selected from the group consisting of ethoxy polyethylene/polypropylene glycol copolymers, methoxy polyethylene/polypropylene glycol copolymers, propoxy polyethylene/polypropylene glycol copolymers, butoxy polyethylene/polypropylene glycol copolymers, pentoxy polyethylene/polypropylene glycol copolymers, triglycerin, hexaglycerin, PPG-4, PPG-6, PEG-5, PEG-6, PEG-8, PEG-12, PEG-14, PEG-18, PEG-20, PEG-32, and mixtures thereof.
17. The composition of Claim 16 wherein the polyalkylene glycol is selected from the group consisting of PPG-4, PEG-8, PEG-12, PEG-20, and mixtures thereof.

18. The composition of Claim 14 wherein the propellant is selected from the group consisting of propane, butane, isobutane, nitrogen, carbon dioxide, nitrous oxide, atmospheric gas, 1,2-difluoroethane, dimethylether, and mixtures thereof.
19. The composition of Claim 14 wherein the composition further comprises an organic solvent selected from the group consisting of C₁-C₆ alkanols, carbitol, acetone, and mixtures thereof.
20. The composition of Claim 19 wherein the composition comprises from about 40% to about 90% by weight of water and from about 1% to about 15% by weight of the organic solvent.
21. The composition of Claim 20 wherein the organic solvent is a C₁-C₆ alkanol selected from the group consisting of ethanol, n-propanol, isopropanol, n-butanol, amyl alcohol, and mixtures thereof.
22. The composition of Claim 14 wherein the composition further comprises a combination of the polyalkylene glycol and a polysaccharide styling polymer.
23. The composition of Claim 22 wherein the polysaccharide styling polymer is selected from the group consisting of glucosamine polysaccharide derivatives, cationic polysaccharides, anionic polysaccharides, and mixtures thereof.
24. The composition of Claim 14 wherein the composition further comprises a gelling agent.
25. The composition of Claim 24 wherein the gelling agent is a water-soluble polymer selected from the group consisting of crosslinked ethylene/maleic anhydride copolymers, crosslinked carboxylic acid polymers, hydrophobically modified nonionic cellulose polymers, and mixtures thereof.

26. A method of making an improved hair mousse composition wherein the method comprises the steps of:

(a) preparing a reformable weld formulation comprising:

- (i) from about 9% to about 25% by weight of a polyalkylene glycol having a number average molecular weight of from about 190 to about 1500 and from about 5 to about 35 repeating alkylene oxide radicals wherein each of the repeating alkylene oxide radicals has from 2 to 6 carbon atoms;
- (ii) from about 40% to about 90% by weight of water; and
- (iii) from about 1% to about 15% by weight of an organic solvent; and

10 (b) packaging the reformable weld formulation in an aerosol container, wherein the aerosol container comprises a propellant, and wherein the reformable weld formulation is substantially free of polyalkylene glyceryl ethers.

27. The method of Claim 26 wherein the reformable weld formulation comprises from about 10% to about 20% by weight of the polyalkylene glycol.

28. The method of Claim 27 wherein the polyalkylene glycol has a number average molecular weight of from about 400 to about 1500.

5 29. The method of Claim 28 wherein the polyalkylene glycol is selected from the group consisting of ethoxy polyethylene/polypropylene glycol copolymers, methoxy polyethylene/polypropylene glycol copolymers, propoxy polyethylene/polypropylene glycol copolymers, buoxy polyethylene/polypropylene glycol copolymers, pentoxy polyethylene/polypropylene glycol copolymers, triglycerin, hexaglycerin, PPG-4, PPG-6, PEG-5, PEG-6, PEG-8, PEG-12, PEG-14, PEG-18, PEG-20, PEG-32, and mixtures thereof.

30. The method of Claim 29 wherein the polyalkylene glycol is selected from the group consisting of PPG-4, PEG-8, PEG-12, PEG-20, and mixtures thereof.

31. The method of Claim 26 wherein the organic solvent is selected from the group consisting of C₁-C₆ alkanols, carbitol, acetone, and mixtures thereof.

32. The method of Claim 31 wherein the organic solvent is a C₁-C₆ alkanol selected from the group consisting of ethanol, n-propanol, isopropanol, n-butanol, amyl alcohol, and mixtures thereof.

33. The method of Claim 26 wherein the propellant is selected from the group consisting of propane, butane, isobutane, nitrogen, carbon dioxide, nitrous oxide, atmospheric gas, 1,2-difluoroethane, dimethylether, and mixtures thereof.

34. A hair styling composition comprising:

(a) from about 65% to about 99% by weight of a polyalkylene glycol that is substantially free of polyalkylene glyceryl ethers and that has a number average molecular weight of from about 190 to about 1500 and from about 5 to about 35 repeating alkylene oxide radicals wherein each of the repeating alkylene oxide radicals has from 2 to 6 carbon atoms; and

(b) from about 1% to about 30% by weight of a liquid carrier.

35. The composition of Claim 34 wherein the polyalkylene glycol has a number average molecular weight of from about 400 to about 1500.

36. The composition of Claim 35 wherein the polyalkylene glycol is selected from the group consisting of ethoxy polyethylene/polypropylene glycol copolymers, methoxy polyethylene/polypropylene glycol copolymers, propoxy polyethylene/polypropylene glycol copolymers, butoxy polyethylene/polypropylene glycol copolymers, pentoxy polyethylene/polypropylene glycol copolymers, triglycerin, hexaglycerin, PPG-4, PPG-6, PEG-5, PEG-6, PEG-8, PEG-12, PEG-14, PEG-18, PEG-20, PEG-32, and mixtures thereof.

37. A method for styling dry hair, which method comprises applying an effective amount of the composition of Claim 1 to the hair.

38. A method for styling dry hair, which method comprises applying an effective amount of the composition of Claim 14 to the hair.

39. A method for styling dry hair, which method comprises applying an effective amount of the composition of Claim 26 to the hair.

40. A method for styling dry hair, which method comprises applying an effective amount of the composition of Claim 34 to the hair.